WEST Search History

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DATE: Thursday, May 06, 2004

Hide?	Set Name	Query	Hit Count
	DB=USPT,EPAB,DWPI; PLUR=YES; OP=ADJ		
☐	L1	molecular break light	1
☐	L2	probe same (hairpin or stem loop)	616
☐	L3	probe same (hairpin oligonucleotide or (stem loop near oligonucleotide))	25
☐	L4	L2 and fluorophore	263
☐	L5	L4 and quencher	133
☐	L6	L5 and enediyne	1
☐	L7	L5 and cleavage agent	11
☐	L8	L5 and bleomycin	0
☐	L9	enediyne	156
☐	L10	L9 and probe	55
☐	L11	L10 and fluorophore	11
☐	L12	L11 and cleav$	11
☐	L13	L7 and cleav$	11
☐	L14	molecular beacon probes	156
☐	L15	L14 and (bleomycin or enediyne)	2
☐	L16	L14 and L9	1
☐	L17	L14 and (fluorophore and quencher)	69
☐	L18	L17 and (hairpin oligonucleotide or stem loop oligonucleotide)	7
☐	L19	L18 and cleav$	4
	DB=PGPB,USPT,USOC,EPAB,DWPI; PLUR=YES; OP=ADJ		
☐	L20	l14 and cleavage agent	5
☐	L21	l14 and (exonuclease or restriction enzyme or restriction endonuclease or nuclease)	113
☐	L22	L21 and (stem loop or hairpin)	69
☐	L23	L22 and ((fluorophore or acceptor) and quencher)	55
☐	L24	L23 and solid support	30
☐	L25	calicheamicin	396
☐	L26	L25 and cleav$	331
☐	L27	L26 and l21	0
☐	L28	L26 and (fluorophore and quencher)	14

☐	L29	CalC and l26	10
☐	L30	L29 and l28	1
☐	L31	nucleotd=ide protective agent	0
☐	L32	nucleotide protective agent	2
☐	L33	(protective agent near (nucleic acid or nucleotide))	2
☐	L34	CalC or calicheamicin-resistance	18665
☐	L35	WO 0037608	0
☐	L36	WO0037608	0
☐	L37	WO 0037608	0
☐	L38	WO000037608	0

END OF SEARCH HISTORY

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FILE 'STNGUIDE' ENTERED AT 14:54:33 ON 06 MAY 2004
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 30, 2004 (20040430/UP).

=> d his

     (FILE 'HOME' ENTERED AT 14:29:49 ON 06 MAY 2004)

     FILE 'MEDLINE, BIOTECHDS, EMBASE, BIOSIS, SCISEARCH, CANCERLIT, CAPLUS'
     ENTERED AT 14:30:22 ON 06 MAY 2004
L1             2 S (MOLECULAR BREAK LIGHT) AND PROB##
L2            19 S (HAIRPIN OR STEM LOOP) AND MOLECULAR BEACON PROB##
L3            15 DUP REM L2 (4 DUPLICATES REMOVED)
L4             1 S (L3 AND (EXONUCLEASE OR NUCLEASE OR ENDONUCLEASE OR RESTRICT
L5             1 S L3 AND CLEAV?
L6          2642 S (HAIRPIN OR STEM LOOP) AND PROB##
L7            74 S L6 AND  (FLUOROPHORE AND QUENCHER)
L8            48 DUP REM L7 (26 DUPLICATES REMOVED)

     FILE 'STNGUIDE' ENTERED AT 14:54:33 ON 06 MAY 2004

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Designing a novel molecular beacon for surface-immobilized DNA hybridization studies; a DNA **probe** with a **stem loop** structure that emits fluorescence upon binding to a target DNA, for use as a DNA biosensor

AUTHOR: Fang X; Liu X; Schuster S; *Tan W
CORPORATE SOURCE: Univ.Florida
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CODEN: JACSAT
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DOCUMENT TYPE: Journal
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AN 1999-05924 BIOTECHDS

AB A biotinylated ssDNA molecular beacon was designed for use in DNA hybridization analysis. DNA hybridization and molecular interaction studies are important techniques for genetic disease diagnosis, particularly where clinical symptoms are linked to nucleic acid mutations. Molecular beacons (MB) are a new class of DNA **probe**, and are used to identify the mutations responsible for genetic disease. MB are ss DNA **probes** containing a **stem loop** structure. The loop structure is capable of reporting the presence of a specific complementary DNA sequence, and the five bases at each end of the MB are complementary, forming a stem. A **quencher** is immobilized to one of the ends, and a **fluorophore** to the other, so that the fluorescence is quenched until the loop comes into contact with a target DNA sequence. The hybrid between loop and target DNA is longer and more stable than the stem structure, and thus the stem is broken, and the **fluorophore** brought out of contact with the **quencher**, resulting in fluorescent emissions. This is of significant value in studying genetics, particularly genetic disease and molecular interaction. It can also be used to produce DNA biosensors. (14 ref)